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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,271	04/05/2005	Hiroshi Yoshihara	09792909-6201	3065
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WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			ART UNIT	PAPER NUMBER
			2815	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary Examiner			Application No.	Applicant(s)				
Matthew C. Landau 2915			10/530,271 YOSHIHARA ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Betancinot of them may be available under this provides of 37 CFR 1.13(a), in no event, however, may a reply the limity flexible control of the major is provided and the provided of the communication of the major is provided blook. The major will be statistic, cause the application become ABANDONE (30 LS, € \$13 cm.) Failwho to my when the set or received grand for major will be statistic, cause the application become ABANDONE (30 LS, € \$13 cm.) Failwho to my when the set or received grand for my will be statistic, cause the application DE Source (3) and the communication. Provided by the communication of the communication, even if fenely flexif, may reduce any event of place that major devices and the communication of the communication, even if fenely flexif, may reduce any event of place that major devices and the communication of the communication is non-final. 3) ☐ Responsive to communication(s) filed on		Office Action Summary	Examiner	Art Unit				
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2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Al Claim(s)	Status							
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Application/Control Number: 10/530,271

Art Unit: 2815

DETAILED ACTION

Claim Objections

Claim 1 is objected to because of the following informalities: the limitations "first writing lines is wound" and "second writing lines is wound" should be changed to "first writing lines are wound" and "second writing lines are wound". Further the limitation "reversed each other" should be changed to "reversed with respect to each other" (or something similar).

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Witcraft et al. (US Pat. 6,771,533, hereinafter Witcraft).

Regarding claim 1, Figure 8 of Witcraft discloses a magnetic storage device of complementary type for storing storage data in a first ferromagnetic tunnel junction element 804 and a second ferromagnetic tunnel junction element 810 (col. 5, lines 52-54 and col. 12, lines 20-22), respectively, in which said magnetic storage device using said ferromagnetic tunnel junction elements is characterized in that: said first ferromagnetic tunnel junction element and said second tunnel junction element are formed adjacently on a semiconductor substrate; a first writing lines

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are wound around said first tunnel junction element like a coil and said second writing lines are wound around said second tunnel junction element like a coil; wherein a winding direction of said first writing lines and a winding direction of said second writing lines are reversed with respect to each other. Note that the "winding direction" is relative to the starting/ending point of the winding process. It is essentially a product-by-process limitation that does not structurally distinguish the claimed invention over the prior art. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. In re Thorpe, 227 USPQ 964, 966. If a coil has two sides (side A and side B), the coil wound in a clockwise direction from side A to side B would have the same structure as if the could were wound in a counter-clockwise direction from side B to side A. Therefore, both the first and second wiring coils can be considered to have either winding direction.

Regarding claim 2, Figure 8 of Witcraft discloses the first and second writing lines are connected at endpoints. Whether or not those endpoints are start-ends or terminal-ends is merely a product-by-process limitation that does not structurally distinguish the claimed invention over the prior art. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art. the claim is unpatentable even though the prior product was made by a different process. In re Thorpe, 227 USPQ 964, 966.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Witcraft in view of Chen et al. (US Pat. 5,732,016, hereinafter Chen).

Regarding claims 3 and 4, Figure 8 of Witcraft discloses the first and second writing lines have upper and lower writing lines extending in a direction substantially perpendicular to a magnetization direction of said fixed magnetization layers, at positions above and below said first and second junction elements. The difference between Witcraft and the claimed invention is the first and second writing lines have parallel wiring portions which extend in a direction substantially parallel to a magnetization direction of fixed magnetization layers at positions immediately below said first tunnel junction element and said second tunnel junction element. Figures 8-11 of Chen disclose a magnetoresistive device with coil-shaped writing lines 80/86/87 surrounding a magnetoresistive element 84, wherein the writing lines have parallel wiring portions which extend in a direction substantially parallel to a magnetization direction of fixed magnetization layer at positions immediately below the element. In view of such teaching, it would have been obvious to the ordinary artisan at the time the invention was made to modify the invention of Witcraft by using the wiring structure of Chen for the purpose of selecting a wiring method that can be more easily fabricated.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew C. Landau whose telephone number is 571-272-1731. The examiner can normally be reached on 9:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew C. Landau Primary Examiner Art Unit 2815